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### SECTION 1. IDENTIFICATION

Product name	:	TS PRO GREENSHIELD
Product code	:	00000003000130116
Manufacturer or supplier's o	deta	ills
Company name of supplier	:	Milliken & Company
Address	:	920 Milliken Rd
		Spartanburg SC 29303
Telephone	:	+1-864-503-1940 (M-F, 8-5 EST)
E-mail address	:	sds@milliken.com
Emergency telephone	:	In case of emergency call CHEMTREC US: 1-800-424-9300,
number		CHEMTREC WORLD: 1-703-527-3887.

### Recommended use of the chemical and restrictions on use

Recommended use	:	Colouring agents, pigments
Restrictions on use	:	Animal feedstuff

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 7.35 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 7.35 %

### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Aqueous solution

#### Components

-		
Chemical name	CAS-No.	Concentration (% w/w)
1,2-Propanediol	57-55-6	>= 10 - < 20
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	64366-70-7	>= 5 - < 10
carbon black	1333-86-4	>= 0.1 - < 1
2-methyl-2H-isothiazol-3-one	2682-20-4	< 0.1
Actual concentration is withhold as a	trada socrat	

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

General advice

: Do not leave the victim unattended.

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lf in	haled	:	advice.	n recovery position and seek medical	
In c	In case of eye contact		If symptoms persist, ca Remove contact lenses Protect unharmed eye.	5.	
lf sv	vallowed	:	If eye irritation persists Keep respiratory tract of Do not give milk or alco Never give anything by If symptoms persist, ca	clear. bholic beverages. mouth to an unconscious person.	
and	effects, both acute and ayed	:	None known.		
SECTIO	N 5. FIREFIGHTING MEA	SU	RES		
Furt	her information	:		r chemical fires. sures that are appropriate to local surrounding environment.	
	cial protective equipment irefighters	:			
SECTIO	N 6. ACCIDENTAL RELE	ASI	EMEASURES		
Env	ironmental precautions	:	If the product contamin respective authorities.	ates rivers and lakes or drains inform	
	hods and materials for tainment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.		
SECTIO	N 7. HANDLING AND ST	OR/	AGE		
	ice on protection against and explosion	:	Normal measures for p	reventive fire protection.	
Adv	ice on safe handling	:		n see section 8. rinking should be prohibited in the	
	ditions for safe storage	:	the technological safety		
Mat	erials to avoid	:	No materials to be esp	ecially mentioned.	
	her information on age stability	:	No decomposition if sto	ored and applied as directed.	

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2-Propanediol	57-55-6	TWA	10 mg/m3	US WEEL

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carbo	n black	Î	1333-86-4	TWA	3.5 mg/m3	NIOSH RE
Carbo	IT DIACK		1000-00-4	TWA	3.5 mg/m3	OSHA Z-1
				TWA	3.5 mg/m3	OSHA P0
				TWA	3 mg/m3	ACGIH
				(Inhalable	5 mg/ms	ACGIN
				particulate		
				matter)		
				TWA	0.1 mg/m3	NIOSH RE
					(PAHs)	
Appro contre	opriate engineering ols	:	No data ava	ilable		
Perso	onal protective equipme	ent				
Respi	ratory protection	:	No personal required.	respiratory prot	ective equipment n	ormally
Eye p	rotection	:	Safety glass	es		
Skin a	and body protection	:	Protective su	uit		
Hygie	ne measures	:	General indu	ıstrial hygiene p	ractice.	
TION	9. PHYSICAL AND CH	EMI	CAL PROPE	RTIES		
Appea	arance		liquid			
Colou		÷	green			
Odour	-	:	mild			
Odour	r Threshold	:	No data av	ailable		
pН		:	No data av	ailable		
Meltin	g point/freezing point	:	No data av	ailable		
Boilin	g point/boiling range	:	not determi	ned		
Flash	point	:	The produc	t is not flammab	le.	
	oration rate	:	No data av			
	nability (solid, gas)	:	No data av			
	nability (liquids)	:	No data av			
Self-ig		:	No data av			
	· explosion limit / Upper ability limit	:	No data av	ailable		
	explosion limit / Lower ability limit	:	No data av			
	Ir pressure	:	No data av			
	ve vapour density	:	No data av			
Relati			No data av	allable		
Relati Relati	ve density	÷		مارمان		
Relati Relati Densi	ve density ty	:	No data av	ailable		
Relati Relati Densi Solub	ve density ty ility(ies)	:		ailable		
Relati Relati Densi Solub Wa	ve density ty ility(ies) ater solubility	:	No data av soluble			
Relati Relati Densi Solubi Wa	ve density ty lility(ies) ater solubility lubility in other solvents	:	No data av soluble No data av	ailable		
Relatin Relatin Densit Solubi Wa So Partitio octano	ve density ty ility(ies) ater solubility lubility in other solvents on coefficient: n- ol/water	:	No data av soluble No data av No data av	ailable ailable		
Relatin Relatin Densii Solubi Wa So Partitio octano Auto-i	ve density ty ility(ies) ater solubility lubility in other solvents on coefficient: n- ol/water gnition temperature	:	No data av soluble No data av No data av No data av	ailable ailable ailable		
Relatin Relatin Densin Solubin Wa So Partitin octano Auto-i Decor	ve density ty ility(ies) ater solubility lubility in other solvents on coefficient: n- ol/water gnition temperature nposition temperature	:	No data av soluble No data av No data av No data av No data av	ailable ailable ailable ailable		
Relati Relati Densi Solubi Wa So Partiti octano Auto-i Decor Vis	ve density ty ility(ies) ater solubility lubility in other solvents on coefficient: n- ol/water gnition temperature		No data av soluble No data av No data av No data av	ailable ailable ailable ailable ailable ailable		

## SAFETY DATA SHEET

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Molec	cular weight	: No data available			
SECTION	10. STABILITY AND	REACTIVITY			
	nical stability bility of hazardous	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. No hazards to be specially mentioned.</li> </ul>			
Conditions to avoid		: No data available			
Hazardous decomposition prod Hazardous decomposition products		ducts : No data available			
SECTION	11. TOXICOLOGICAL				
	e <b>toxicity</b> lassified based on avai	ilable information.			
Comp	<u>ponents:</u>				
	ropanediol: e oral toxicity	: LD50 (Rat): > 20,000 r	ng/kg		
	<b>corrosion/irritation</b> lassified based on avai	ilable information.			
	us eye damage/eye i				
	lassified based on avai				
	iratory or skin sensit	ISALION			
	<b>sensitisation</b> lassified based on avai	ilable information.			
Resp	iratory sensitisation				
Not cl	lassified based on avai	ilable information.			
	<b>cell mutagenicity</b> lassified based on avai	ilable information.			
	nogenicity lassified based on avai	ilable information.			
Produ	uct:				
Rema	arks	as a Group 2B – possi No significant inhalatio use of products in whic dispersion or bound to masterbatches. Risk of concentration in the for exposure to dust from operations. Refer to Se	Carbon Black, which is listed by IARC bly carcinogenic to humans by IARC. n exposure is expected to occur during ch Carbon Black is present in a liquid other materials, such as in f overexposure depends on actual rmula and duration and level of sanding or similar machining ection 8 respiratory protection n 11 for toxicology information.		

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		Duration: 2 years, Targ fibrosis, tumors. Note: 1 to be related to "lung ov chemical effect of the ca effects in rats have bee poorly soluble inorganic (ILSI, 2000). Tumors ha (Ex. mouse, hamster) for	becies: Rat, Route: Inhalation, et Organ: Lungs, Effect: Inflammation, Fumors in the rat lung are considered verload" rather than to a specific arbon black itself in the lung. These on reported in many studies in other c particles and appear to be rat specific ave not been observed in other species or carbon black or other poorly soluble circumstances and study conditions.
		"inadequate evidence" f whether carbon black c concluded that there is for the carcinogenicity c assessment is that carb humans (Group 2B)". T guideline's, which gene	ed its 1995 finding that there is from human health studies to assess auses cancer in humans. IARC "sufficient evidence" in animal studies of carbon black. IARC's overall oon black is "possibly carcinogenic to his conclusion was based on IARC's arally require such a classification if one ogenicity in two or more animal studies
			on Black as a confirmed animal vn relevance to humans (Category A3).
	nogenicity - sment	: Weight of evidence doe carcinogen	es not support classification as a
IARC	Group 2B: Pc carbon black	essibly carcinogenic to huma	ns 1333-86-4
OSHA		nt of this product present at le st of regulated carcinogens.	evels greater than or equal to 0.1% is
NTP		nt of this product present at le a known or anticipated carcin	evels greater than or equal to 0.1% is logen by NTP.
Not cla <b>STOT</b> Not cla	oductive toxicity assified based on availa - single exposure assified based on availa - repeated exposure		
Not cla	assified based on availa	able information.	
-	ation toxicity assified based on availa	able information.	
Furth	er information		
<u>Produ</u> Rema		: No data available	

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CTION	12. ECOLOGICAL INF	ORM	IATION	
Ecoto	oxicity			
<u>Produ</u>	-			
Comp	oonents:			
	ropanediol:			
	ity to fish	:	LC50 (Oncorhynchus m Exposure time: 96 h Test Type: static test	nykiss (rainbow trout)): 40,613 mg/l
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia dubia (v Exposure time: 48 h Test Type: static test	water flea)): 18,340 mg/l
2-met	hyl-2H-isothiazol-3-on	e:		
	ty to fish	:	LC50 (Oncorhynchus m Exposure time: 96 h	nykiss (rainbow trout)): 0.07 mg/l
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna Exposure time: 48 h Test Type: Immobilizatio	
Persi	stence and degradabil	ity		
<u>Comp</u>	oonents:			
	<b>ropanediol:</b> gradability	:	Biodegradation: 96 % Exposure time: 64 d Method: OECD Test Gu	uideline 306
Bioac	cumulative potential			
Comp	oonents:			
1,2-Pı	ropanediol:			
	on coefficient: n- ol/water	:	log Pow: -0.92	
	thyl-2H-isothiazol-3-on	e:		
	on coefficient: n- ol/water	:	log Pow: 0.119	
	<b>ity in soil</b> Ita available			
	adverse effects			
Other	auverse effects			

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		manufactured wit	oduct neither contains, nor was h a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +
	ional ecological nation	: No data available	
SECTION	13. DISPOSAL CONS	DERATIONS	
Disp	osal methods		
Conta	aminated packaging		should be taken to an approved waste recycling or disposal.
	14. TRANSPORT INF		
SECTION	14. TRANSFORT INF		

**UNRTDG** Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ Calculated product RQ	
		(lbs)	(lbs)
hexachlorobenzene	118-74-1	10	10 (D032)
ammonia, aqueous solution	1336-21-6	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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kr		known CAS numbers	his material does not contain any chemical components with nown CAS numbers that exceed the threshold (De Minimis) eporting levels established by SARA Title III, Section 313.	
Clean	Air Act			
This p	product neither contains,	nor was manufactured wit	h a Class I or Class II ODS as defined b	
the U.	S. Clean Air Act Section	602 (40 CFR 82, Subpt. A	A, App.A + B).	
			nts (HAP), as defined by the U.S. Clean	
	t Section 112 (40 CFR 6			
			r the U.S. Clean Air Act Section 112(r) fo	
		(40 CFR 68.130, Subpart		
			n Air Act Section 111 SOCMI	
Intern	nediate or Final VOC's (4 1,2-Propanediol	0 CFR 60.489): 57-55-6	>= 10 - < 20 %	
	1,2-Propanedioi	57-55-6	>= 10 - < 20 %	
Clean	Water Act			
	ollowing Hazardous Subs 116.4A:	tances are listed under the	e U.S. CleanWater Act, Section 311,	
	ammonia, aqueous solution	1336-21-6	>= 0 - < 0.1 %	
	methyl methacrylate	80-62-6	>= 0 - < 0.1 %	
The fo	ollowing Hazardous Cher	nicals are listed under the	U.S. CleanWater Act, Section 311, Tab	
117.3	:			
	ammonia, aqueous solution	1336-21-6	>= 0 - < 0.1 %	
	methyl methacrylate		>= 0 - < 0.1 %	
	decachloro-1,1'-biph		>= 0 - < 0.1 %	
This p 307	product does not contain	any toxic pollutants listed	under the U.S. Clean Water Act Section	

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### California Prop. 65

WARNING: This product can expose you to chemicals including decachloro-1,1'-biphenyl, carbon black, hexachlorobenzene, which is/are known to the State of California to cause cancer, and decachloro-1,1'-biphenyl, hexachlorobenzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Additional information is available by request. ( regulatory@milliken.com )

### **SECTION 16. OTHER INFORMATION**

### **Further information**

### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
	1910.1000

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OSHA	x Z-1	: USA. Occupational E Limits for Air Contam	xposure Limits (OSHA) - Table Z-1 inants	
US WEEL		: USA. Workplace Environmental Exposure Levels (WEEL)		
ACGIH / TWA		: 8-hour, time-weighted average		
NIOSI	H REL / TWA	<ul> <li>Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek</li> </ul>		
OSHA	NP0 / TWA	: 8-hour time weighted average		
OSHA	Z-1 / TWA	: 8-hour time weighted average		
US W	EEL / TWA	: 8-hr TWA	-	

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation: DOT - Department of Transportation: DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance: ELx - Loading rate associated with x% response: EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: RCRA - Resource Conservation and Recovery Act: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

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Please Note: As each customer's use of our product may be different, information we provide, including without limitation, any regulatory information, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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